ARASH HEIDARI

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EDUCATION —

Ghent University

Computer Science (Ph.D)

Ghent, Belgium Aug 2021 – Present

- Supervisors: Dr. Ivo Couckuyt, Dr. Sebastian Rojas Gonzalez
- **Thesis:** Targeting Evaluation, Computation and Interaction Costs in Expensive Black-Box Multi-Objective Optimization

Iran University of Science and Technology

Tehran, Iran Sep 2016 – Jul 2018

Electrical Engineering (MS.c.)

• Supervisor: Dr. Sattar Mirzakuchaki

• Thesis: DPA-Resistant and Low Power Cryptography in IoT Devices.

• **GPA:** 18.27 / 20

Iran University of Science and Technology

Tehran, Iran Sep 2012 – Jul 2016

Electrical Engineering (BS.c.)
Supervisor: Dr. Sattar Mirzakuchaki

• Thesis: Internet-Enabled Control for Enhanced Surveillance System Operation

• **GPA:** 16.19 / 20

EXPERIENCE —

IDLab (imec - Ghent University)

Ghent, Belgium

Al Researcher

Aug 2021 – Present

- Executed various AI-based projects from diverse corporate clients at IDLab.
- Successful collaborations with industry leaders such as Boeing, Sirris, and Atlas Copco.
- Supervision of multiple master students

Iran University of Science and Technology Al Researcher

Tehran, Iran Jan 2019 – Dec 2020

- Conducted AI-based projects, as the primary responsibility.
- Collaborated with PhD and master's students on Al-related projects.
- Instructing machine learning, deep learning, and Python programming language.

SKILLS -

Programming Python, C/C++, JavaScript, R, TensorFlow, PyTorch, SQL, Plotly
 Machine Learning Deep Learning, Time-Series Analysis, Bayesian Optimization, Uncertainty Quantification, Anomaly Detection, Surrogate Modeling

Software Development GUI Development, Embedded Software Development, Linux

Languages Persian, English (Fluent), German (Intermediate), Dutch, Spanish, French (Basic Understanding)

Soft Skills Leadership, Interdisciplinary Collaboration, Public Speaking, Technical Communication, Adaptability, Curiosity-Driven Learning

HIGHLIGHTED PUBLICATIONS -

Towards Trustworthy Surrogate Models for Augmenting Certification: Fuel Tank Flammability Reduction System (submitted) 2024

- Authors: A. Heidari, L. Werthen-Brabants, S. Rojas Gonzalez, I. Couckuyt, C. Onur, P. van Gils, I. Jojic
- Journal: AIAA Journal of Aerospace Information Systems

Knee Detection in Bayesian Multi-Objective Optimization Using Thompson Sampling 2024

- Authors: A. Heidari, J. Qing, S. Rojas Gonzalez, J. Branke, T. Dhaene, I. Couckuyt
- **Journal:** IEEE Transactions on Evolutionary Computation

Optimizing Memory Footprint for Radar-Based Human Activity Recognition on Resource-Constrained Devices 2024

- Authors: A. Heidari, L. Werthen-Brabants, I. Couckuyt, T. Dhaene
- Conference: European Radar Conference (EuRAD)

Optimized Data Transmission for Radar - Based Edge - Cloud Human Activity Recognition via Quantization 2024

- Authors: V. Tuytte, A. Heidari, L. Werthen-Brabants, I. Couckuyt, T. Dhaene
- Conference: European Radar Conference (EuRAD)

Lower Confidence Bound for Preference Selection in Interactive Multi-Objective Optimization 2024

- Authors: A. Heidari, S. Rojas Gonzalez, I. Couckuyt, T. Dhaene
- Conference: The Genetic and Evolutionary Computation Conference (GECCO)

Data - Driven Surrogate Modeling for the Flammability Reduction System 2024

- Authors: A. Heidari, L. Werthen-Brabants, T. Dhaene, I. Couckuyt, C. Onur, P. van Gils, I. Jojic
- Conference: AIAA SCITECH Forum

Surrogate-Assisted Evolutionary Algorithm for the Calibration of Distributed Hydrological Models Based on Two-Dimensional Shallow Water Equations 2024

- Authors: J. Farfán-Durán, A. Heidari, T. Dhaene, I. Couckuyt, L. Cea
- Journal: Water

ACHIEVEMENTS –

Outstanding Student – Digital Electronic Systems Graduate Program 2018

Granted direct admission to the Ph.D. program in electrical engineering at Iran University of Science and Technology

REFERENCES -	
KEFEKENCES:	

References available upon request.